

SUBJECTS OF THE SECOND YEAR.

PURE MATHEMATICS.

Differential and Integral Calculus.
Spherical Trigonometry.

APPLIED MATHEMATICS.

Hydrostatics.
Geometrical Optics.
Plane Astronomy.

EXPERIMENTAL PHYSICS.

Light: Use of the Heliostat and Spectroscope. Experiments with
Lenses and Mirrors. Theory of the Telescope and Microscope,
and of Reflecting instruments.

DRAWING.

Subjects of First Year continued.
Descriptive Geometry, including Projections of the Sphere.
Machines and Constructions.

ENGINEERING.

Theodolite Surveying.
Principles of Geodesy (considering the Earth a Sphere).
Applied Mechanics.
Theory of Strength of Materials.
Materials of Construction.
Methods and Processes.

CHEMISTRY.

CHEMISTRY (APPLIED).

Combustion, Fuel, and Furnaces.
Artificial Lighting.
Explosives.
Laboratory Practice.